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Host



Tony O'NeillGroup Technical Director

Speakers



Matt DaleyGroup Head of Mining



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Rohan DavidsonGroup Chief Information Officer



Arun NarayananGroup Chief Data Officer



Donovan WallerGroup Head of Technology Development



Pierre HerbenGroup Head of Carbon Neutrality

Re-imagine mining to improve people's lives



A new trajectory for mining

Operational Excellence

Full potential

Stability

Digitalisation through VOXEL™

FutureSmart Mining™ Technologies

Bulk ore sorting

Coarse particle recovery

Hydraulic dry stacking

Microwave

Hydrogen trucks

Carbon Neutrality Energy Strategy

The challenge

The pathways

Progress

Full Value

Portfolio

Partnerships

Society

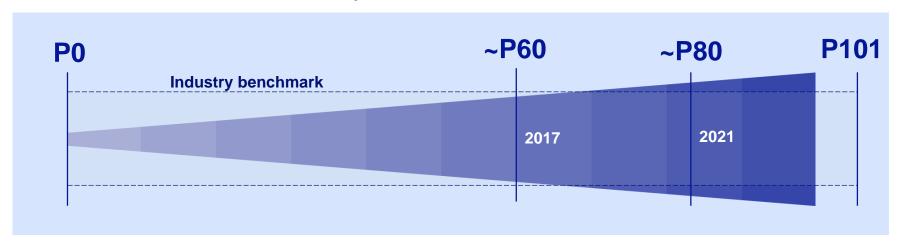


Delivering our full potential through P101

What is P101?

- · P101 is our breakthrough productivity programme
- · Initiatives are focused on delivering industry leading performance and productivity across all our key plant and equipment
- Ensure integration across all processes and focused on value delivery

Operational Excellence



Delivering our full potential through P101: Mining

P101 Tactical Mine Design

- Planning the mine around the equipment
- · Enabling high plan compliance
- · Further incorporating safety in design
- Key contributor to delivering >25% improvement in shovel productivity

Before



After





Delivering our full potential through P101: Mining

Blasting Design

- · Fragmentation models enabling fit-for-purpose designs
 - Improved fragmentation delivering improved truck and shovel payloads and milling rates
- Eliminated unproductive trim / buffer blasts
 - 20-50% reduction in number of weekly blasts
 - ~50% improved shovel loading rates in trim blast areas

Blasting Practices

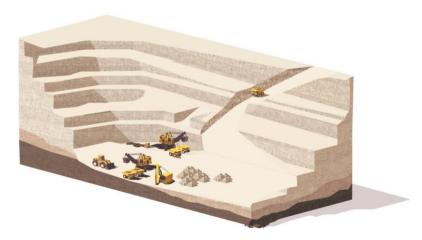
- 50% improvement in drill and blast execution vs plan
- Enabled via real-time, in-field digital platforms
- Delivering improved safety and social performance



Delivering our full potential through P101: Mining

Haul Road Digital Twins

- · Analyse and improve existing haul roads
 - Mogalakwena 23% reduction in haul cycle time; 40% improvement in truck average empty speeds on main haul cycle
- Locking in benefits during design phase of future haul roads



Computer Model vs Truck Speed



Delivering our full potential through P101: Processing

Maximising Processing Value Drivers

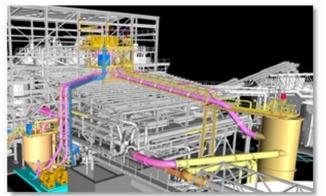
Throughput

- Systematic debottlenecking through dynamic modelling enabled targeted process design upgrades
- Circuit reconfiguration to achieve increased process efficiency utilising existing infrastructure
 - 7% year on year increase in Minas Rio throughput rate

Run Time

- Remote asset monitoring to anticipate maintenance and model optimum shutdown strategy
- Implementation of asset tactics, spares management and improved material handling – reduced blockages and improved plant stability and runtime
 - 12% increase in weekly Direct Operating Hours at the Moranbah Complex Coal Plant





Delivering our full potential through P101: Processing

Maximising Processing Value Drivers

Recovery

- Geometallurgical modelling tailoring operating parameters to mined material
- Circuit reconfiguration, reagent optimisation, and operating parameter adjustment
- · 2% increase in Minas Rio mass recovery

Revenue

- Optimising ore blends tailors product to customer's value-in-use
- Defining Drill and Blast requirements, optimising crusher settings and screen configurations to preserve and maximise Lump
 - 5% improvement in Kumba lump:fine ratio



Delivering our full potential through P101

P101 Best Practice Principles

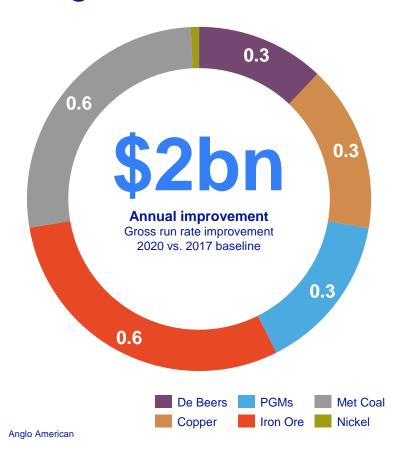
- · Locking in the improvements
- Building a foundation to redefine the benchmark
- Positioned for future autonomy / technology deployment



Delivering our full potential through P101



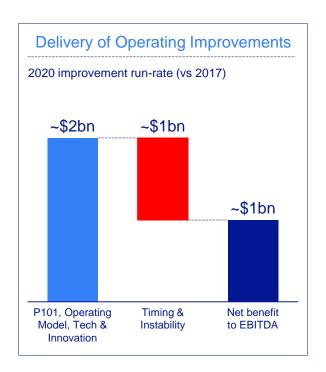
Tangible value delivered

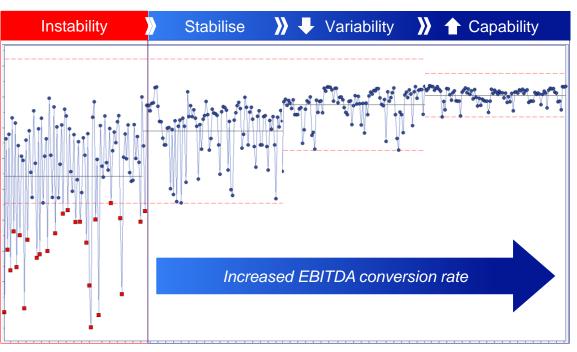




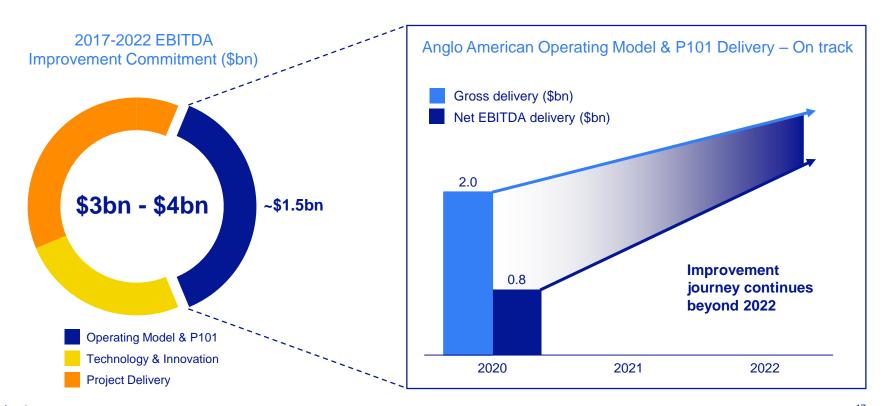


Stability is the key to sustaining our full potential

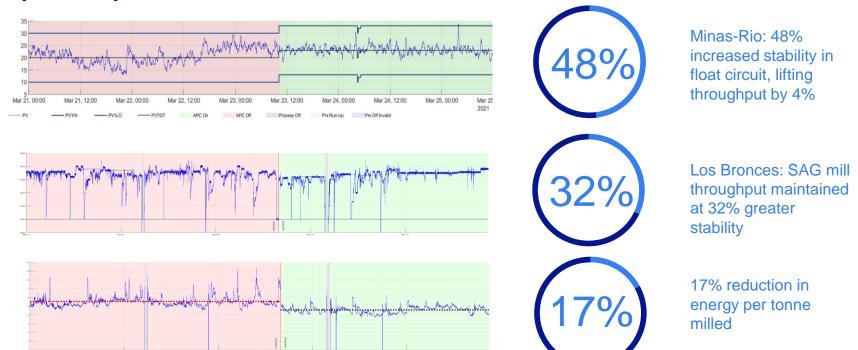




Stability delivers EBITDA



Advanced Process Control automates stability of plant process



APC improves energy and water efficiency

Sustainability benefits include

- · 4% reduction in water consumption at Los Bronces grinding mills
- 4-12% energy reductions from APCs controlling SAG mills
- 80% reduction in plant micro-stoppages from plant-wide optimisers in South Africa and Brazil
- Minimised product loss and improved water efficiency from fibre optic sensor wraps that surround piping to dynamically model the flow of metal in process
- · Reduction in maintenance of high-value moving parts including motors, pumps, conveyor belts

14ktCO_{2e}
Carbon reduction

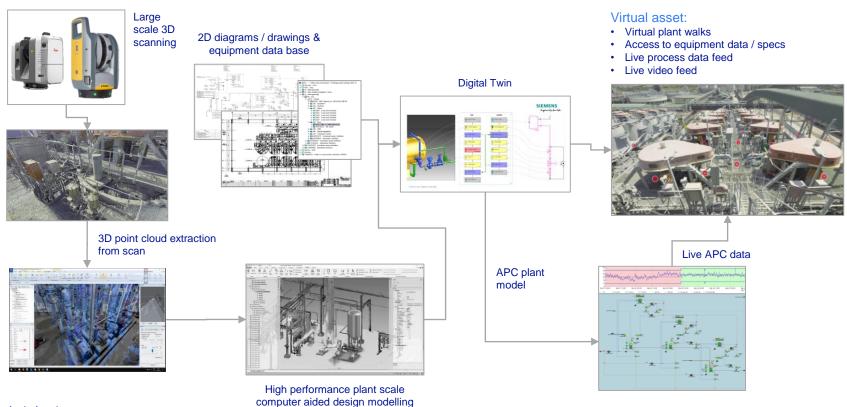
173kGJ

Energy savings

\$5m

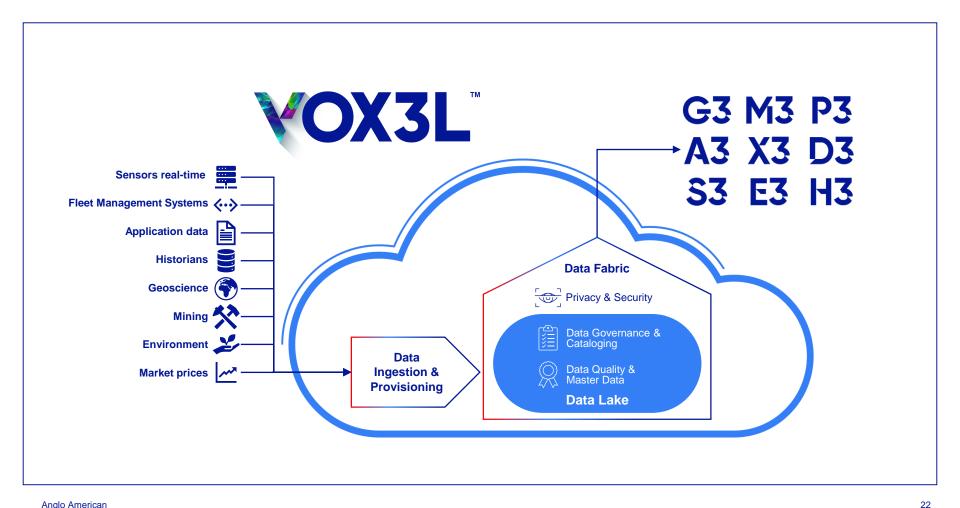
Energy cost savings

APC improves energy and water efficiency





Industry-first digital transformation platform for data-driven decisions



VOXEL is different



Others

Built for mining

Spans full value chain

Leverages technical and sustainability knowledge

Digital twins of the entire value chain

Built for equipment

Focused on equipment health

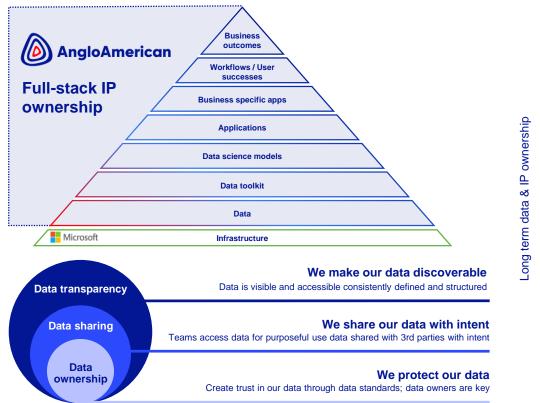
Leverages other industry knowledge

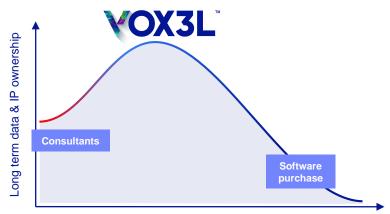
Digital twin of one asset

Anglo American 23

VS

VOXEL drives intellectual property and data ownership





Rapid Resource Modelling

Creating a digital version of the ground in which we operate to provide an 'always right' model of ore concentrations



Sustainability Delivering sustainable outcomes

Asset Maintenance **Optimisation**

Ensuring that maintenance on assets is carried out with the least impact on costs and plans overall and in the long-term



People & **Process**

Encouraging and supporting our people to ensure they are ready and able to identify and exploit opportunities presented by the technology

VOX3L

Digital Operational Planning Simulating the value chain to

produce the optimal outcome

P3

Integrated Data Lake

Mine Planning

Optimising the plan to extract the required ore for the greatest value, with the least environmental impact, safely



Safety & Health

Detecting patterns and optimising tactics that minimise safety risks and maximise healthy working practices

Processing Planning

Optimising the plan to process the required ore for the greatest value, with the least environmental impact safely

Processing Optimisation

P3

Process Health – Mogalakwena North (PGM concentrator)

Before

 Comparing current performance against its historical statistical mean, which had moving bottlenecks that led to process instability

After

- P3 points out process deviations seamlessly
- Metallurgist can investigate and solve the process anomaly quickly
- · Auto-detect the context of the plant
- Coming soon: Recipe optimization with Greenhouse Gas modelling

Challenges detecting bottlenecks



Quickly detecting anomalies and bringing stability into process



Asset Management

A3

Predictive maintenance – ACP (PGM processing)

Before

- · Traditional approach is reactive
- Breakdown of assets resulted in production impact
- Unplanned stoppages

After

- Proactive continuous monitoring with early prediction of anomalies
- Sufficient time to plan and act for the maintenance resolutions
- Impact to whole plant avoided, as anomalies are detected at the right time

Under/over maintenance



5 catches that helped to protect 121 hours of downtime





Safety and Health

H3

COVID-19 response

Purpose

- Understand COVID-19 levels across Anglo American
- · Identify people recently exposed
- Enable testing

Outcomes

- · Dashboards deployed
- · Proven accurate case identification
- Benefits to employees and to the company

Potential infection risks



Identified without undue disruption to life and work





Sustainable Operations

Greenhouse Gas modelling

Purpose

Outcomes

· Provide a sustainability lens view across the mining value chain

Simulate and provide optimal environmental

recommendations based on integrated value generated across the mining value chain

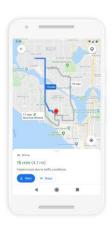
not impacting plans

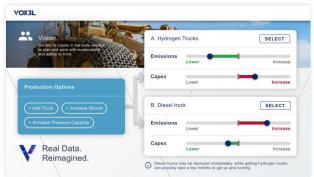


GHG emissions

Capability to balance planned throughput with expected



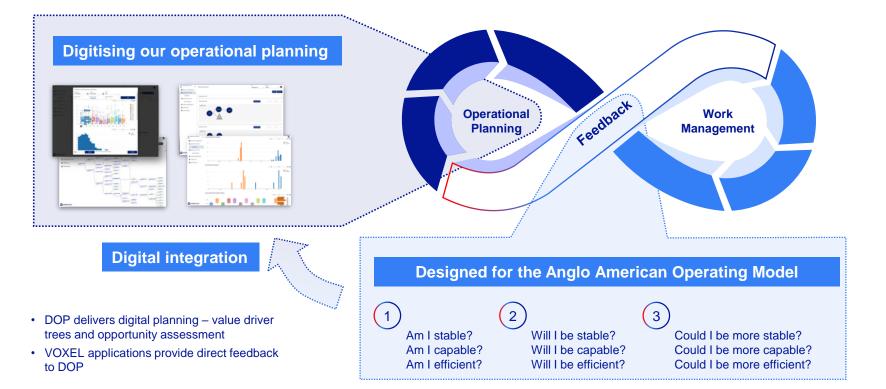




emissions

Digital Operational Planning





Digital literacy is a key enabler

Building a digitally literate organisation



Data and digital foundations

- Training for all employees to drive a better understanding of data and digital concepts
- Underpins the evolution of a data and digitally-enabled culture



Data analytics nano-degrees

- Developing and applying deeper skills to apply data, analytics and digital principles across the organisation
- Data citizen programme, to augment technical/SME skills with analytics capabilities





VOXEL enables remote work

Integrated Remote Operating Centre (IROC)

Before

- · Effort and risks of travel to mining sites
- Data sourced from multiple, separated systems
- Limited access to experts

After

- · New way of working
- · Integrated data sets and expert access
- Remote control room for Los Bronces in Q1 2021

In-person, on-site working



Digitally-enabled specialists, working remotely





Technology

Technology provides the tools





Digital Transformation



Training and support provides the skills



Data & Digital Foundations

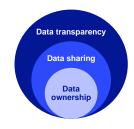


Data Analytics Nanodegrees



Process

Processes provide the infrastructure that empowers a new way of working





33

FutureSmart Mining™ integrates technology & sustainability





Water-less Mine



Modern Mine



Intelligent Mine









Concentrating the Mine™: Bulk ore sorting

Overview

· Early rejection of waste increases plant grades and metal output

Key benefits example – Mogalakwena

- · Reduces energy and water intensity
- Mass reject 5% 20%
- · Delivery in 2021

Rollouts

- Barro Alto 2021/2022
- Los Bronces 2021-2023
- · Other sites are under study







Concentrating the Mine™: Coarse particle recovery

Overview

- · Increased throughput by recovering metal at larger particle sizes
- · An enabler for hydraulic dry stacking

Key benefits example – Quellaveco

- 10-20% less energy and wet tailings
- Up to 85% water recovery with hydraulic dry stack
- Up to 4% production increase through tailings retreatment
- Additional ~12-35% production through full expansion

Rollouts

- · Los Bronces 2023
- Minas-Rio 2023
- · Investigating options at Collahuasi







Concentrating the Mine™: Hydraulic dry stacking

Overview

· Low cost, safe, geotechnically stable dry tailings

Key benefits

- · Eliminate risk of liquefaction
- Increased water recovery ~ 85%
- Can be repurposed, benefiting host communities and biodiversity

Rollouts

- El Soldado demonstration 2021
- Together with CPR, potential for 20-30% additional production at Collahuasi and Quellaveco within existing water licences







Hydrogen truck and plant

Mogalakwena update

- Hydrogen plant and solar PV ready at Mogalakwena Q4 2021
- Scale up to 2024, with expected electrolyser capacity above 100 megawatts

Key benefits

- Potential to eliminate 46% of diesel related GHG emissions equivalent to 1MtCO2e pa
- Enables new local economies and job opportunities

Rollouts

• 7 sites expected to have renewable power and hydrogen by 2030







Concentrating the Mine™: Microwave

Overview

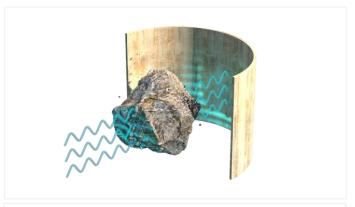
· Use microwave energy to precondition ores, increasing throughput and recovery

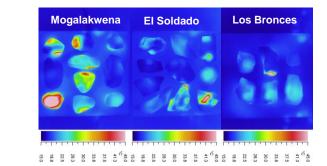
Key benefits

- · Reduces energy and water intensity
- Hardness reduction in ores, Pt 5%-25%, Cu 8%-12%

Rollouts

- Los Bronces, Mogalakwena, Collahuasi and Quellaveco
- Further implementation capex ~\$0.4bn \$0.7bn







Speed of innovation to value

Accelerators of value

- · Accelerated development methods
- Risk managed approach
- · Agile deployment methods compress rollout time
- Modular concepts
- · Implement and improve, using Anglo American Operating Model and P101

Benefits

• Time to value reduced from 15-20 to 2-5 years

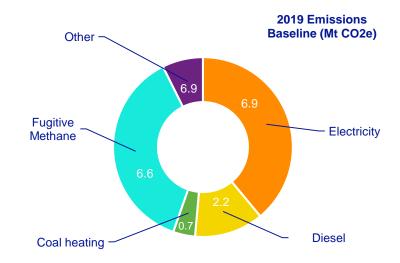


The carbon neutrality challenge offers a new mining landscape

Overview

- Strong, market-leading carbon neutrality agenda announced in 2020
- 3 main sources of GHG emissions provides focused effort
- Innovations, technical solutions and viability analysed





A multi-faceted pathway to carbon neutrality

Our carbon neutrality strategy focuses on 6 levers which, when connected, provide the architecture for a zero carbon future



1 Renewable energy generation

Developing a supply of renewable power generation to deliver reliable carbon free electricity



Methane capture

Leveraging developing technologies to substantially abate ventair methane, and enhance the safety of our operations



2 Hydrogen generation

Developing an integrated green hydrogen production and enabling fuel switching from diesel



5 Energy efficiency

Improvements in operational efficiency are significantly decreasing carbon emissions and costs and will continue into our future



3 Energy storage

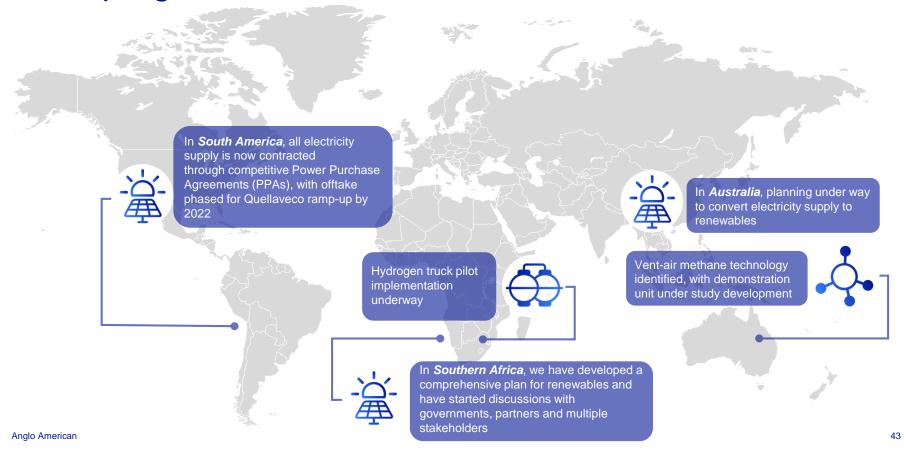
Attractive options to enable 24/7 access to renewable generation and stability are arising



6 Emissions compensation

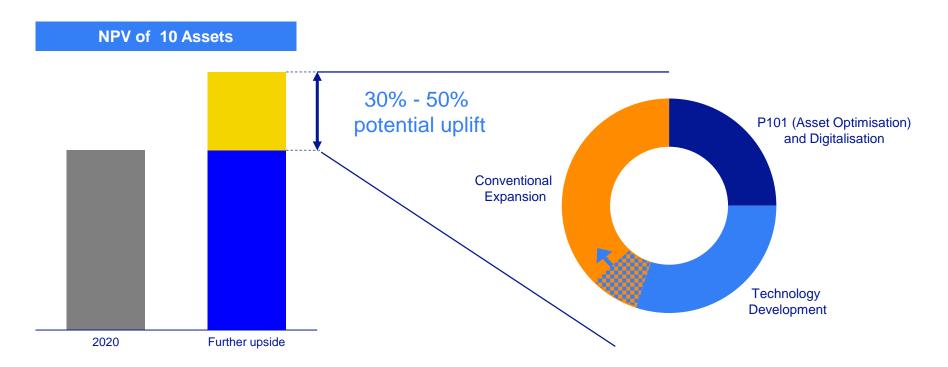
For the remaining hard-to-eliminate emissions, we are developing a pipeline of technology and nature-based ${\rm CO_2}$ sequestration and inset solutions

Initial progress is on track for critical emissions areas



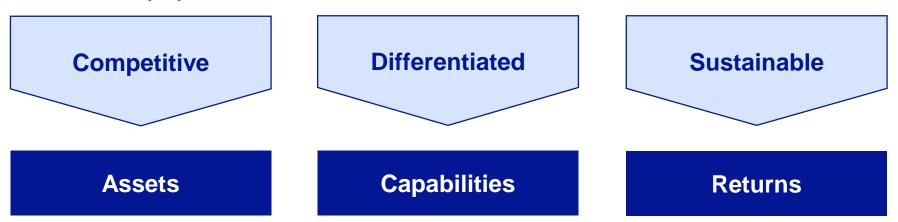


An integrated view of value for the Group



Q&A

Our investment proposition...



"Leading capabilities actively improving a competitive, world-class asset base to drive sustainable, attractive returns"

To ask a question, please dial: UK +44 (0) 2071 928338 / SA 0800 014552 / US 1 87787 09135 Conference ID: 5882825



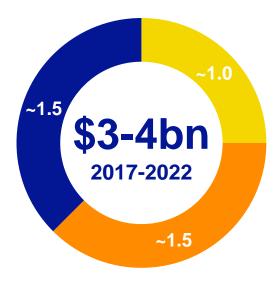
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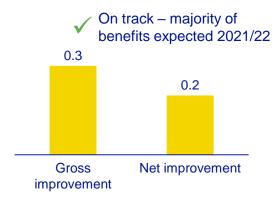
Appendix

Progress on 2017-2022 EBITDA improvement target









Project delivery

Quellaveco (Copper) & Namibia vessel (Diamonds)

Both 2022 and on track ✓

^{1.} Improvement in EBITDA also impacted by above-CPI cost inflation of \$0.2bn (2018-2020)